



# 2014-15 Median Student Growth Percentile Reports: An Overview

March 2016

# Summary of 2014-15 mSGP Release

All districts received secure access to their 2014-15 teacher and principal/AP/VP Median Student Growth Percentile (mSGP) data on March 22, 2016.

- Two elements are unique to this year's release:
  1. The **state has shifted from the NJ ASK to the PARCC exam.**
  2. 2014-15 is the **first evolution cycle in which multiple years of data can be used to draw the mSGP.**

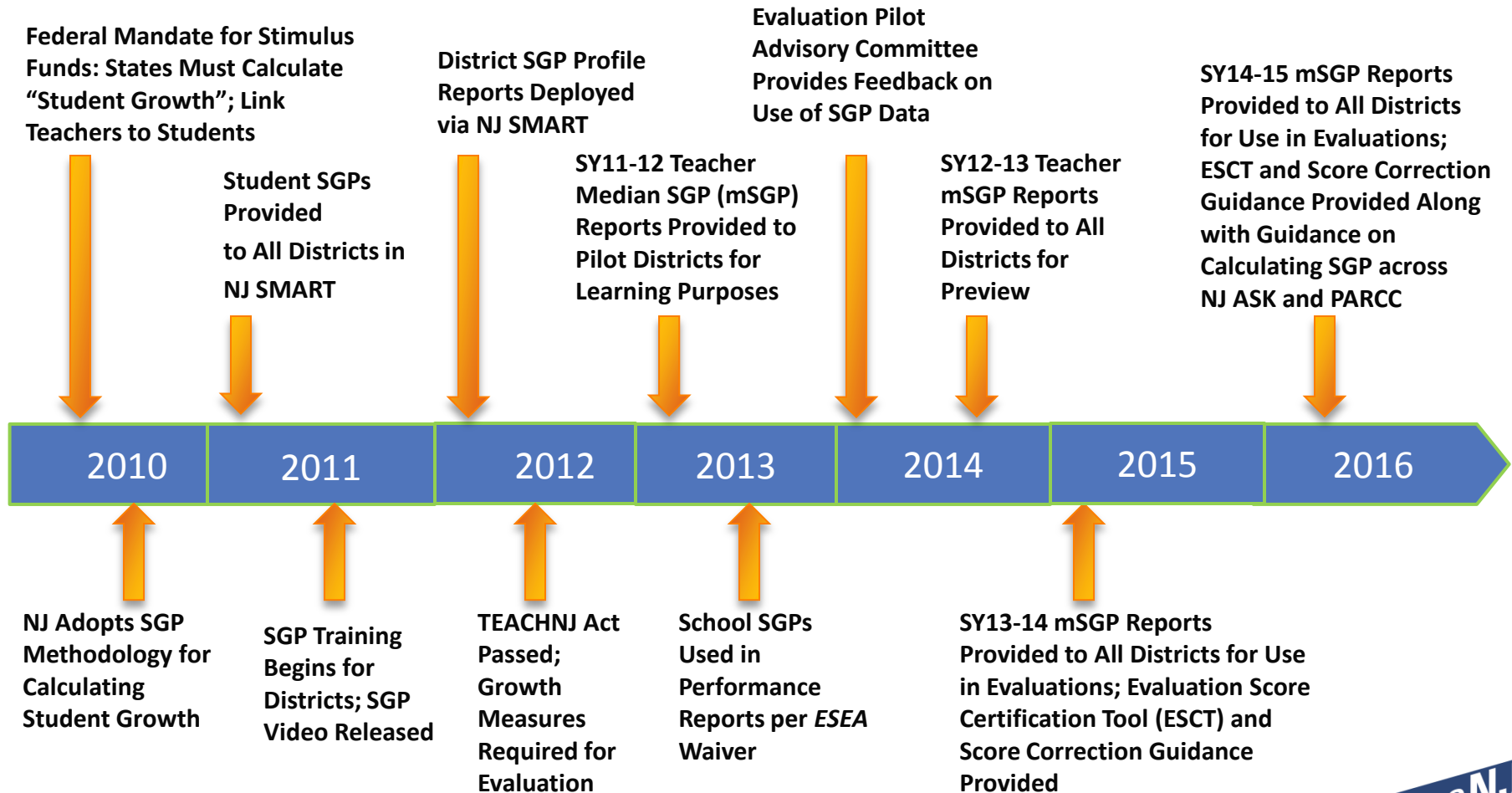
Both of these elements are explained in proceeding slides.

- mSGP data is an important part, but **only one part of an educator's evaluation.** These scores will be used to **finalize 2014-15 evaluations** and to **inform educators' ongoing professional development.**
- As with last year, districts will have the **opportunity to correct any errors** in reporting from 2014-15 before certifying final scores to the Department.

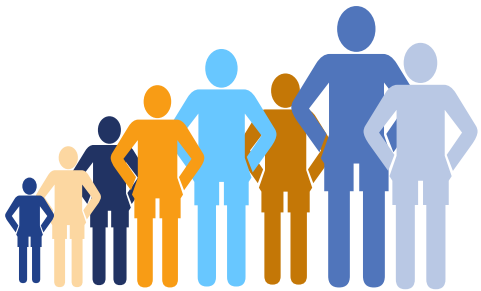
*By statute, mSGPs (like all aspects of an individual's evaluation) are confidential and must not be shared publicly.*

# Development of Student Growth Percentiles (SGPs)

- *New Jersey has taken a **thoughtful, multi-year approach** to ensure SGP data is accurate and usable.*
- ***SGP resources and trainings** will continue to be provided for educators in 2016 and beyond.*
- *SGP data will continue to be available to **authorized NJ SMART users** in every district.*



# Calculating Student Growth Percentiles



All students can show growth.

- Student Growth Percentiles (SGPs) measure how much a student has learned from one year to the next compared to students with a similar performance history from across the state (“academic peers”).
- For a video overview of SGP calculation, please access <http://survey.pcgus.com/njgrowth/player.html>.

# Understanding Academic Peers

- **Multiple consecutive years of data** are required to calculate SGP.
  - Since 3<sup>rd</sup> grade is the first year of the state assessment, 4<sup>th</sup> grade is the first year for which we can calculate SGP.
- **The more years of data available, the more precise an academic peer group is.**
  - By 8<sup>th</sup> grade, we have up to six years of scores for the calculation (as long as students have taken the same assessments).
  - If a student does not have a score for a given year, an SGP cannot be calculated until he/she has two consecutive years of scores.
- **The peer group includes all students** in a grade cohort who have taken exactly the same assessments, i.e., all 7<sup>th</sup> graders who took the 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>-grade Math NJ ASK *and* the 6<sup>th</sup>-grade PARCC.
- **Academic peer groups are recalculated every year**, considering all assessment data for a given cohort of students.

# Calculating SGP from NJ ASK to PARCC

- SGP is a **norm-referenced** methodology, creating a relative ranking of students within an academic performance peer group, not based on absolute performance; thus, it is **uniquely designed to handle a transition across different types of assessments**.
- Because all students in New Jersey have participated in the same testing programs at the same time—that is, all 6<sup>th</sup> graders took the 5<sup>th</sup>-grade NJ ASK and the 6<sup>th</sup>-grade PARCC assessment — **academic peers refers to the same concept in 2014-15 as in previous years**.
- Because of the careful work that the Department has undertaken over the last several years to align the NJ ASK to state academic standards, technical experts confirm that **SGP in the 2014-15 school year is comparable to SGP in the 2013-14 school year**.

# SGP Considers Growth, Not Proficiency

Maria has taken the 6<sup>th</sup>-grade PARCC.  
How does her score compare to those  
of her academic peers?

Maria's Prior LAL  
EOY Scores



4 <sup>th</sup> Gr. NJ ASK	205
5 <sup>th</sup> Gr. NJ ASK	200
6 <sup>th</sup> Gr. PARCC	762

Academic Peers'  
Prior Scores



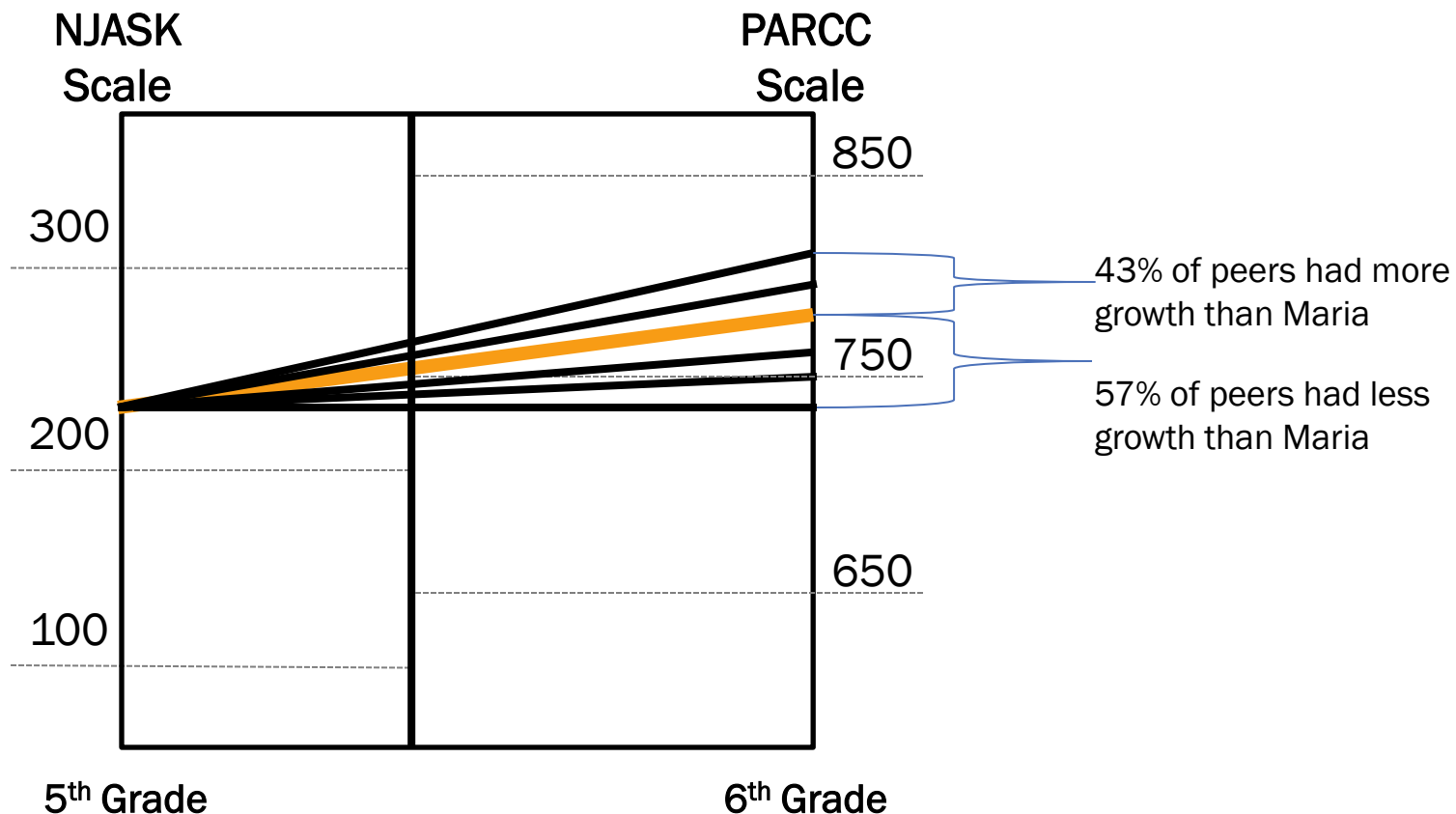
4 <sup>th</sup> Gr. NJ ASK	≈205
5 <sup>th</sup> Gr. NJ ASK	≈200
6 <sup>th</sup> Gr. PARCC	???



# Progression from NJ ASK to PARCC

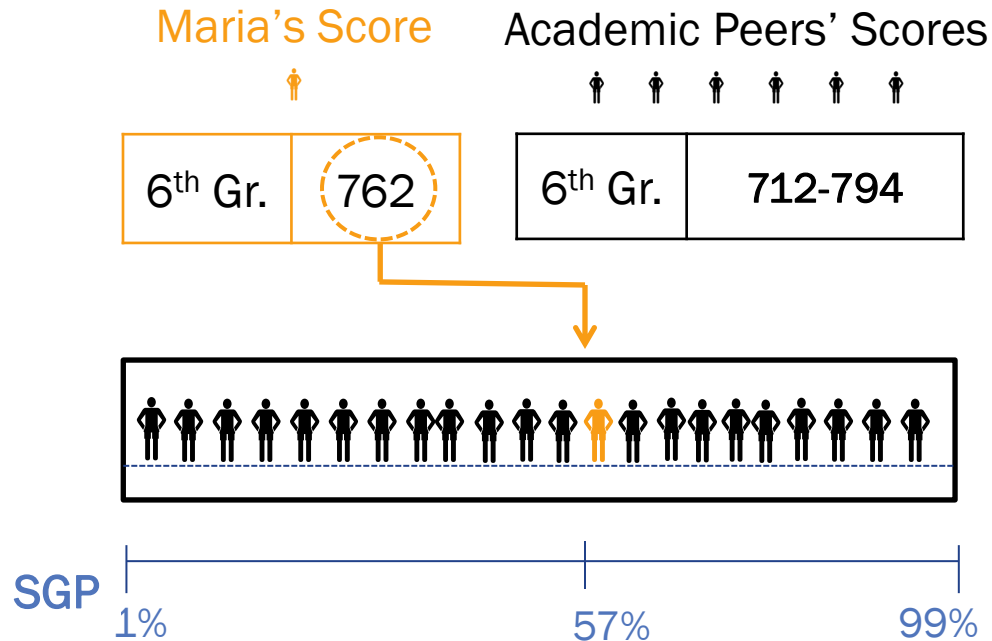
Maria scored 762. Her academic peers (with similar historical score ranges on NJ ASK tests) scored between 712 and 794.

↑ **Maria**    ↑ **Maria's Academic Peers**





# Determining an SGP



A comparison to her academic peers allows us to see that Maria actually outperformed 57% of students who, up until this year, performed in a similar manner to Maria on the same tests. Her SGP score is 57.

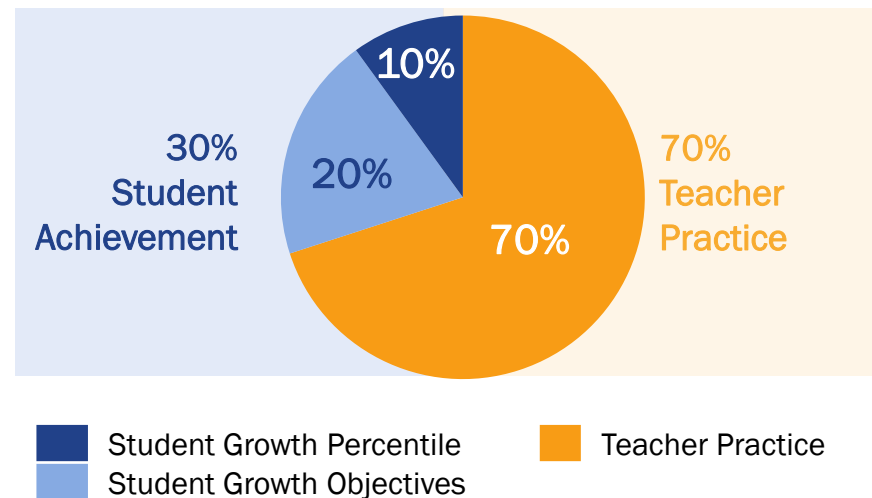
# mSGP Qualification and Weighting: Teachers

To receive the mSGP score, teachers must:

1. Teach a 4<sup>th</sup>–8<sup>th</sup> grade Language Arts/4<sup>th</sup>–7<sup>th</sup>-grade\* Math class, **and**
2. Be the teacher of record for at least 60% of the course prior to the assessment, **and**
3. Have at least 20 separate students with valid SGP scores from 2014-15 alone or 2013-14 and 2014-15 combined.
  - These students must have been enrolled in the class for at least 70% of the school year before taking the test.

*About 20% of teachers qualify.*

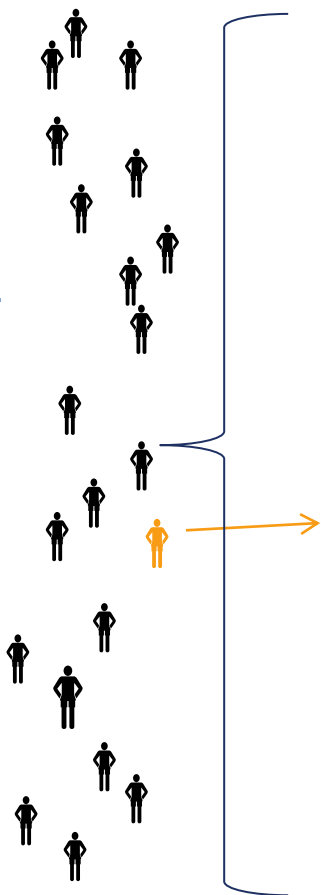
**2014-15 Weights**  
(Also used in 2015-16; note weights not yet set for future years)



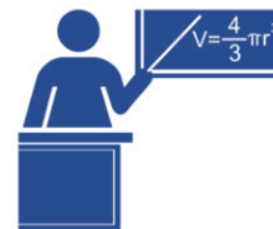
\*SGP is not currently calculated for 8<sup>th</sup>-grade Math.

# Determining a Teacher's mSGP Rating

Maria's SGP is arranged along with the SGPs of all her teacher's students from low to high.



Student	SGP Score
Hugh	12
Eve	16
Clarence	22
Clayton	24
Earnestine	25
Helen	31
Clinton	35
Tim	39
Jennifer	44
Jaquelyn	46
Lance	51
Roxie	53
Maria	57
Julio	61
Selena	65
Ashlee	66
Laura	70
Mathew	72
Marcus	85
Charles	89
Milton	97



Median SGP Score

Maria's teacher receives an effectiveness rating by taking the median SGP score – in this case, 51.

# Multi-year mSGP

Median this Year = 51

Student	SGP Score
Hugh	12
Eve	16
Clarence	22
Clayton	24
Earnestine	25
Helen	31
Clinton	35
Tim	39
Jennifer	44
Jaquelyn	46
Lance	51
Roxie	53
Maria	57
Julio	61
Selena	65
Ashlee	66
Albert	70
Mathew	72
Marcus	85
Charles	89
Milton	97

Starting with 2014-15 evaluations:

- If multiple years of data are available, the Department will use the highest available score – either  
a) the teacher's median score of their current roster or b) the median of all student scores over the qualifying years (up to three).

The SGP score will then be placed on a 1.0 - 4.0 scale.

Median Over 2 Years = 56

Student	SGP Score
Hugh	12
Eve	16
John	16
Charles	20
Annie	20
Clarence	22
Clayton	24
Earnestine	25
Jake	27
Helen	31
Rachel	33
Clinton	35
Tim	39
George	41
Amber	42
Jennifer	44
Jaquelyn	46
Bobby	50
Lance	51
Roxie	53
Mike	55
Mel	56
Maria	57
Regina	58
Marissa	60
Julio	61
Faye	63
Selena	65
Ashlee	66
Jackie	67
Courtney	68
Albert	70
Matthew	72
Laura	77
Jack	78
Jared	80
Rick	84
Marcus	85
Charles	89
Michelle	92
Molly	95
Milton	97

# Multi-year mSGP Example

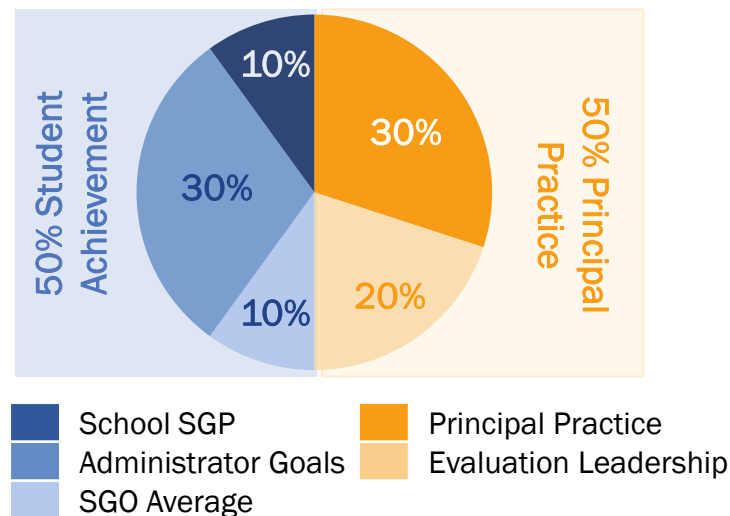
- Mr. Jones was assigned 22 students in 2014-15 who took the Language Arts and Math assessments, resulting in a **median SGP of 46 for Language Arts and a median SGP of 68 for Math. When all 44 student SGP scores are arrayed in an ascending list, the median value is 52: Mr. Jones's mSGP for 2014-15.**
- Then, **all of his student scores from both 2014-15 and 2013-14 are arrayed in an ascending list. The median value from this list is Mr. Jones's multi-year mSGP: 60.**
- Because this value is higher than his 2014-15 mSGP of 52, 60 is the value that will be used for his evaluation. This **mSGP value of 60 converts to an mSGP score of 3.3.**

MR. JONES	2014-15 mSGP	2014-15 STUDENTS ASSIGNED	MULTI- YEAR mSGP	MULTI- YEAR STUDENTS ASSIGNED	HIGHER SCORE	MSGP SCORE (1.0-4.0)
Language Arts	46	22	54	40		
Mathematics	68	22	62	40		
Overall	52	22	60	40	60	3.3

# mSGP Qualification and Weighting: Principals

To receive the mSGP score, principals/APs/VPs must:

1. Be assigned to schools attended by more than 20 separate students who took the grades 4-8 LAL tests or grades 4-7 math tests; and
1. Be assigned to qualifying students reported as having attended the school for one full year prior to the administration of the test, according to the data submitted by the district in its State Submission.



*About 60% of school leaders qualify.*

# Individual mSGP Report

Individual mSGP reports provide:

- **Background information** about SGPs and mSGPs
- The educator's **mSGP score** for 2014-15 chart depicting an example of a principal's score is displayed below.
- **Suggestions for how to interpret and utilize the data**, as well as provide access to **additional resources** .

PRINCIPAL/AP/VP	MSGP (1-99)	# STUDENTS ASSIGNED	MSGP SCORE (1.0-4.0)
Language Arts Literacy	46	175	
Mathematics	68	175	
Overall	52	175	3.0

# Addressing Data Issues

- The accuracy of mSGP Data is dependent on course roster and staff submission data submitted by the school district.
- Districts may expect to receive mSGP scores for educators who ended up not qualifying and vice versa.
- Incorrect district data submissions may have led to errors in mSGP scores for individual educators.
- As we did last year, the Department will provide **mSGP score verification and correction procedures.**
  - Depending on the issue and the district's ability to document evidence for a given error, the mSGP score may be recalculated or removed from an educator's summative rating.



# Evaluation Score Certification Tool

- Districts will have an opportunity to **certify that all 2014-15 evaluation data are correct or to make changes** where necessary.
  - The Department will release the **Evaluation Score Certification Tool** and related guidance for districts to use in certifying final 2014-15 summative ratings for all educators in the coming days.
  - This interface will allow districts to **review data, correct any errors** that occurred in the original NJ SMART submission, and **certify the accuracy** of each staff member's final score.
  - Districts will have approximately one month to complete this process after release of the tool.

# Next Steps

- Districts: **download secure mSGP reports** and provide individual educator reports **confidentially**, ideally through one-on-one conference
  - Department resources: <http://www.nj.gov/education/AchieveNJ/teacher/percentile.shtml>
- Educators: **review** data, **share questions/feedback** with supervisor
- Department: **release Evaluation Score Certification Tool (ESCT)** and guidance in coming weeks
- Districts: **consult Department guidance** to be released with ESCT, **certify all 2014-15 evaluation scores** within four weeks of Tool access